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PATENT SPECIFICATION

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COMPLETE SPECIFICATION

Dry Shavers

I, AUGUST BELZ, a citizen of the Confederation of Switzerland, residing at Goldach, Canton of Saint-Gall, Switzerland, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement :—

This invention relates to dry shavers with several reciprocating cutting blades in which the resilient upper cutting blades which are stretched over lower guard members lie at least approximately on an imaginary spherical surface.

The accompanying drawings illustrate, by way of example, one embodiment of the object of invention.

Fig. 1 is a longitudinal section through the shaver head,

Fig. 2 is a section along the line II—II in Fig. 1,

Fig. 3 is a top view of Fig. 1 and 2.

In the example shown three movable cutting blades 1 are provided. Two of these blades lie symetrically to the third one. All of the blades are not curved in the transverse direction, but are curved in longitudinal direction. A resilient stirrup 2 enters slots 3 of the very thin blades 1 in order to move these latter and to stretch them over the lower guard member 4 fixed to the shaver head 5.

The stirrup 2 forms the common driving means for all blades 1. It is operated by a motor not illustrated. The stirrup 2 comprises, on each side, three arms 6 each of which enters a slot of the blades 1. The toothed cutting edges 7 of the blades 1 are arranged in two stages symmetrical with regard to the median plane E—E of the middle blade 1 (Fig. 2). Therefore, both sides of the apparatus can be used for shaving. The fore blade, while cutting, simultaneously stretches the skin for the subsequent blade, so that the latter cuts the hair which has not been cut by the fore blade. In this way, any subsequent shaving can be avoided.

From Fig. 1 it may be seen that the upper cutting blades 1 are bent approximately along the arc of a circle and Fig. 2 shows that the median planes E—E, F—F and G—G of these blades intersect one another along the same line. Therefore, the longitudinal median lines of the curved upper blades 1 lie on meridian circles of an imaginary sphere and the blades 1, thereby, lie at least approximately on the envelope of this sphere. This arrangement is very advantageous for obtaining a clean cut in that this spherical surface is especially well suited for allowing depressions of the skin to be attained.

The dry shaver according to the invention might, of course, have only two or even more than three cutting blades. The more blades work in the same direction of movement of the apparatus, the better the shaving during one stroke.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is :—

1. Dry shaver with several reciprocating cutting blades, characterised in that the resilient upper cutting blades which are stretched over lower guard members lie at least approximately on an imaginary spherical surface.

2. Dry shaver according to claim 1, characterised by at least three cutting blades, two of which lie symmetrically to the third one.

3. Dry shaver having its parts arranged, constructed and adapted to operate substantially as described with reference to the accompanying drawings.

Dated this 21st day of June, 1944.
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[This Drawing is a reproduction of the Original on a reduced scale.]

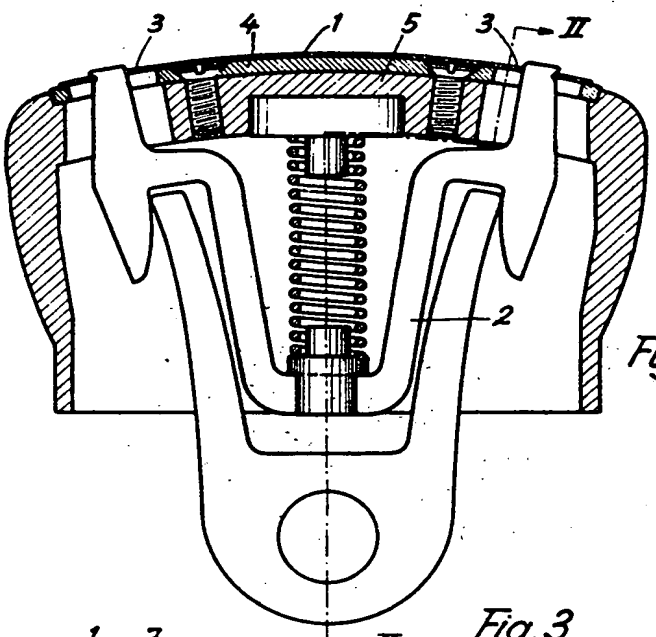

Fig. 1.

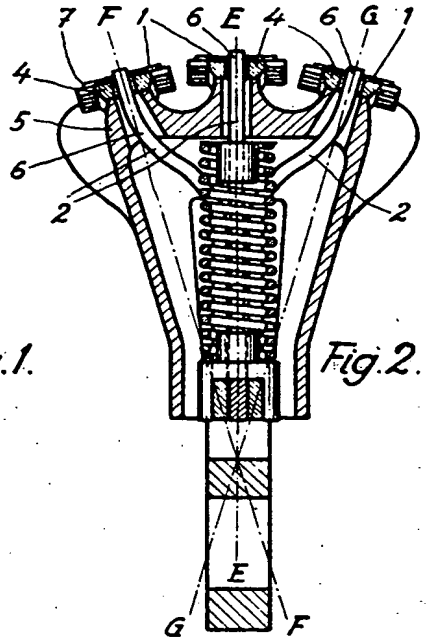

Fig. 2.

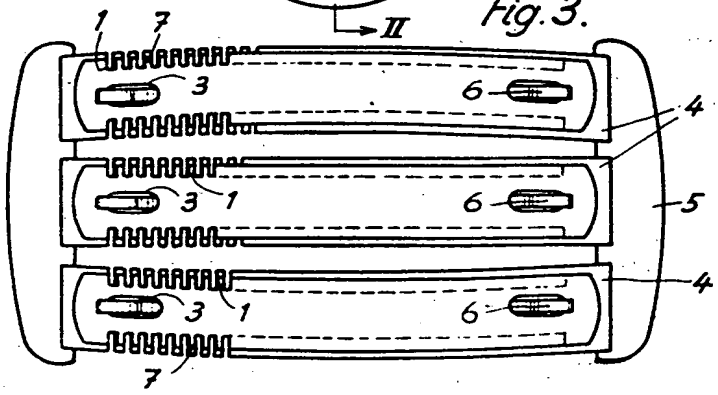

Fig. 3.

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